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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Hahn, et al.

Serial No.: 09/532,208

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Title: Web Based Network Monitoring Tool

Group Art Unit: 2743

Examiner: N/A

**CERTIFICATE OF MAILING**

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on this date.

Date 9-22-00 *John S. Paniaguas*  
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Registration No. 31,051  
Attorney for Applicant(s)

**LETTER TO OFFICIAL DRAFTSMAN**

Hon. Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

Sir:

Enclosed are twenty (20) sheets of formal drawings for the above-identified case. These drawings should be substituted for the drawings currently on the file. Please charge any drawing comparison fee to the Deposit Account of the undersigned (Deposit Account No. 50-1214).

Respectfully submitted,

KATTEN MUCHIN ZAVIS

By: *John S. Paniaguas*  
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Registration No. 31,051

Date: 9-22-00

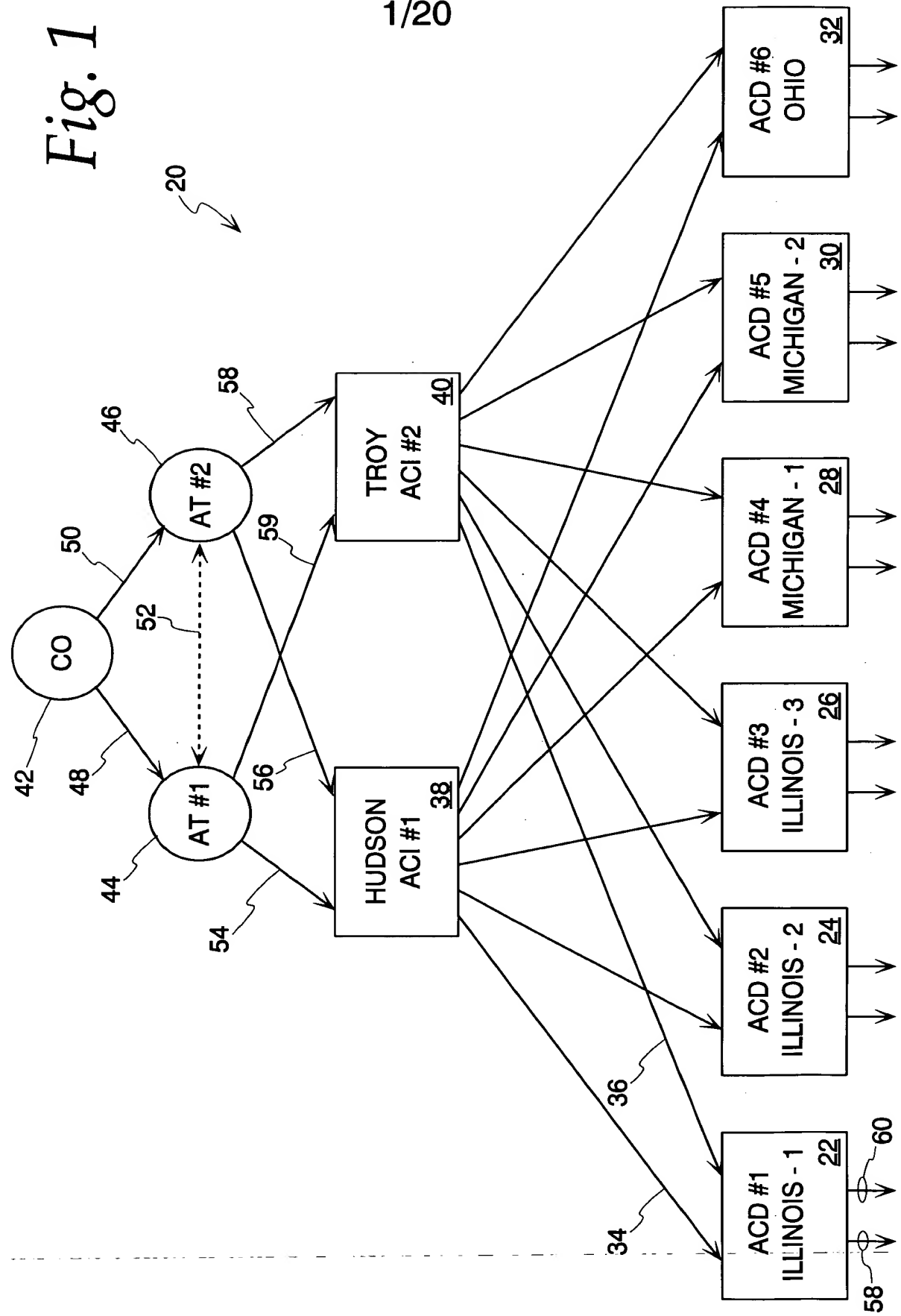
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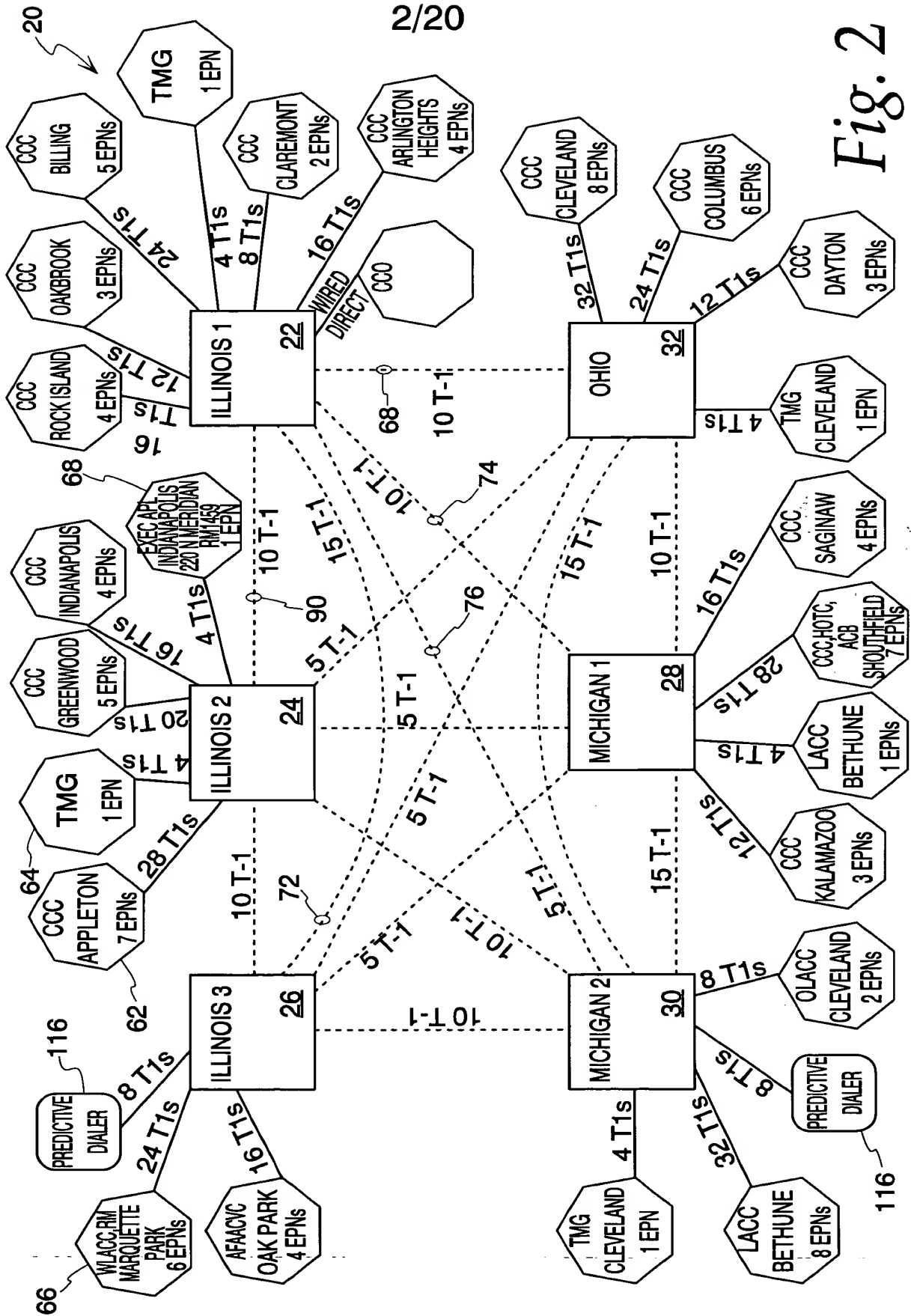
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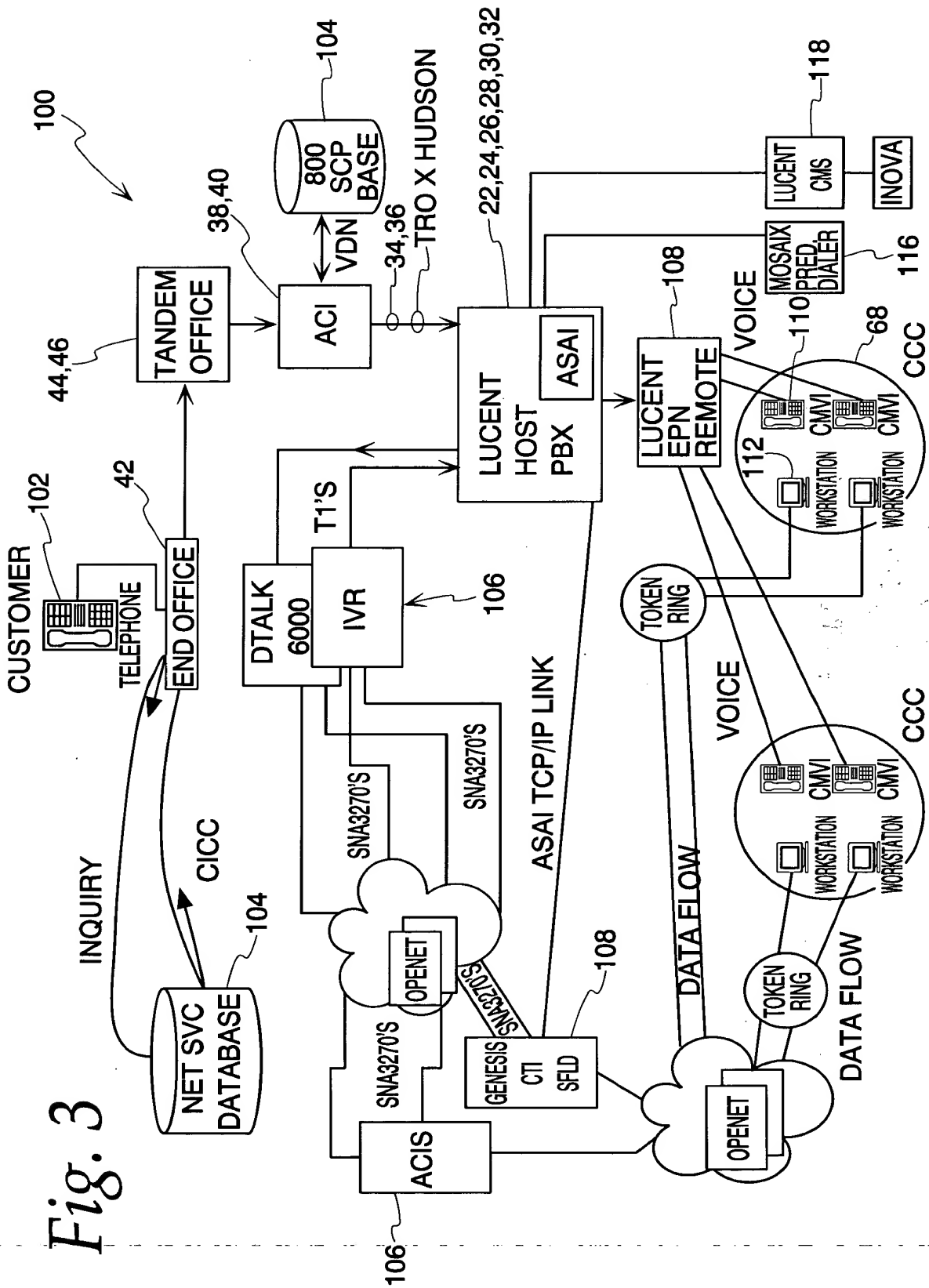
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Fig. 1







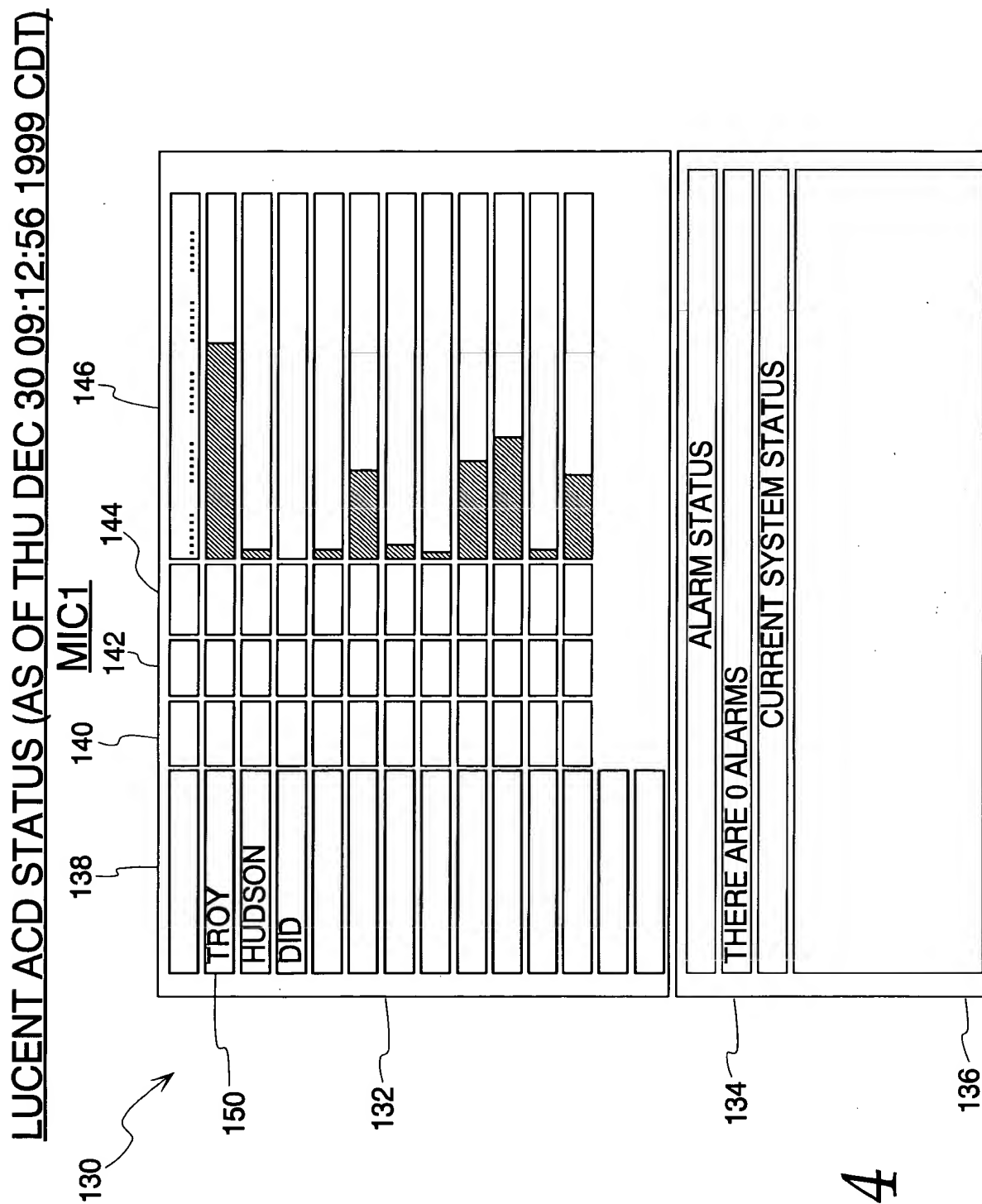


Fig. 4

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Fig. 5a

11:ACI TROY

162	164	168	171	173		
TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
011	003A19	HCGS 324230	NONE	N/A	N/A	TROY TGN 623
	004A18	HCGS 324330	NONE	N/A	N/A	
	002A13	HCGS 324331	NONE	N/A	N/A	
	004A11	HCGS 324332	NONE	N/A	N/A	
	001A09	HCGS 324333	NONE	N/A	N/A	

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13:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
013	005E15	HCGS 324339	NONE	N/A	N/A	TROY TGN 626
	006E15	HCGS 324340	NONE	N/A	N/A	
	005E11	HCGS 324341	NONE	N/A	N/A	
	006E11	HCGS 324342	NONE	N/A	N/A	
	007E10	HCGS 324343	NONE	N/A	N/A	

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15:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
015	003A17	HCGS 324349	NONE	N/A	N/A	TROY TGN 627
	004A17	HCGS 324350	NONE	N/A	N/A	
	004A12	HCGS 324351	NONE	N/A	N/A	
	005A12	HCGS 324352	NONE	N/A	N/A	
	006A12	HCGS 324353	NONE	N/A	N/A	

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17:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
017	004E17	HCGS 324483	NONE	N/A	N/A	TROY TGN 629
	005E17	HCGS 324484	NONE	N/A	N/A	
	006A17	HCGS 324485	NONE	N/A	N/A	
	007A17	HCGS 324486	NONE	N/A	N/A	
	007E17	HCGS 324487	NONE	N/A	N/A	

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18:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
018	004E18	HCGS 324488	NONE	N/A	N/A	TROY TGN 624
	005E18	HCGS 324489	NONE	N/A	N/A	
	006E18	HCGS 324490	NONE	N/A	N/A	
	007A18	HCGS 324491	NONE	N/A	N/A	
	007E18	HCGS 324492	NONE	N/A	N/A	

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19:ACI TROY

TGN	OE	CKT ID	ALARM STATUS	CSU_A	CSU_Z	MISC
019	004E19	HCGS 324493	NONE	N/A	N/A	TROY TGN 634
	005E19	HCGS 324494	NONE	N/A	N/A	
	004E13	HCGS 324495	NONE	N/A	N/A	
	005E13	HCGS 324496	NONE	N/A	N/A	
	006E14	HCGS 324497	NONE	N/A	N/A	

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*Fig. 5b*

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CALL ACI, CHOOSE OPTION 2 FOR TROUBLE REFERRALS.

CIRCUIT DETAILS

```

CKT S /HCGS/324230 /MB A TROYMIUOWOO Z DTRTMIBL6CD
CLO MIS123927001 DV ACT IE IND PRQ SSP TSP MSC N MCO DTRTMIBHSHC
CAC SVF2BP3 CUST AMERITECHCOMMUNICATI PULS -- MW B EML OBJ PG 01 OF 04
M SEQ A LOCATION SV EQPT/FAC RR/TYPE UNIT A TLP Z SBDV/MISC TP
002 E THIS IS A PRO-CDS DESIGN N
004 I MODEL = 8589 DESI GN = 2 N
006 X TROYMIUOWOO **LINE C ODE=B8Z** N
008 X TROYMIUOWOO **SIGNAL CODE=ESF* * N
010 I PROCESSED BY FLOWTHRU ID:HICAP-A VERS : 002 STAMP : 041295 130406 N
012 TROYMIUOWOO 04DS6/ 44 / NI
014 HCG- NC
016 STA ADDR N
018 TROY EU CITY N
020 MI EU STATE N
022 W TROYMIUOWOO DEMARC S
024 TROYMIUOWOO POI XA
026 W X4 806 T3 2 IC X#
028 OWNER=B-BX XX
030 E=DTRTMIBLK07 XX
032 MB 0094.5 MI 0094.5 ZL D#
034 DTRTMIBLK07 EE31F F07/07 /0397 XZ
036 DTRTMIBLK06 T3MAE412 040473.11 1916 F66/13 /08 /4 XM
CKT S /HCGS/324230 /MB A TROYMIUOWOO Z DTRTMIBL6CD
CLO MIS123927001 DV ACT IE IND PRQ SSP TSP MSC N MCO DTRTMIBHSHC
CAC SVF2BP3 CUST AMERITECHCOMMUNICATI PULS -- MW B EML OBJ PG 02 OF 04
M SEQ A LOCATION SV EQPT/FAC RR/TYPE UNIT A TLP Z SBDV/MISC TP
038 DTRTMIBLK07 T1MBDX01 040483.02B ACSA XH
040 DTRTMIBLK07 T1MBDY01 040482.02C CSSA2 XH
042 DTRTMIBLK07 T1MBDZ01 040482.02B ESSA2 XH
044 DTRTMIBLK07 T1MBD901 040480.12A 1 XH
046 DTRTMIBLK07 T1MBD901 040480.12A 1-17 XH
048 DTRTMIBLK07 DCS55NNNSC XF
050 DTRTMIBLK07 T1MBD9Y1 040482.02B 0397 F66/12 /07 /4 XM
052 DTRTMIBLK07 F07/07 /0397 EX

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*Fig. 6a*



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054 E	DTRTMIBLK07	/K07	/FE/DAB/	01/		N1
056 E	DTRTMIBLK07	035-16			/	N2
058 E	DTRTMIBLK07	T1	/			N3
060	DTRTMIBLK07	T1MBDX01	040483.02B	ACSA		EH
062	DTRTMIBLK07	T1MBDY01	040482.01C	CSSA1		EH
064	DTRTMIBLK07	T1MBDZ01	040482.01B	ESSA1		EH
066	DTRTMIBLK07	T1MBD801	040481.03A	1		EH
068	DTRTMIBLK07	T1MBD831	040481.03A	1-27		EH
070	DTRTMIBLK07		DCS5NNNF7			F#
072 W	DTRTMIBLK07	T1MBD8S1	040482.01B	035-16	F93/03 /02 /44	EU
CKT S	/HCGS/324230	/MB			A TROYMIUOWOO Z	DTRTMIBL6CD
CLO MIS123927001		DV	ACT IE IND	PRQ SSP TSP	MSC N MCO	DTRTMIBHSHC
CAC SVF2BP3	CUST AMERITECHCOMMUNICATI	PULS --	MW B EML OBJ		PG 03 OF 04	
M SEQ A	LOCATION	SV EQPT/FAC	RR/TYPE	UNIT	A TLP Z	SBDV/MISC TP
074	DTRTMIBLK07					F07/07 /035 EX
076	DTRTMIBLK07	SD=TSLS-	5500			EX
078	DTRTMIBLK07	\$FEPMTYP E=ANSI403;	FEPM=			EX
080	DTRTMIBLK07	ON;DS1 F ORMAT MUST =	ESF;			EX
082	DTRTMIBLK07	NEPM=OFF				EX
084	DTRTMIBL		NCT2YGEEEE			F#
086 W	DTRTMIBL	T1ML1971	11CAB1	0114	F93/07 /06 /14	EM
088 W	DTRTMIBL	T1IUJ222	IP03191235			P
090	DTRTMIBL	\$**PM SM ARTJACK**	S1=NA			PX
092	DTRTMIBL	,S2-1=DI SABLE,S2-2	=DISA			PX
094	DTRTMIBL	BLE,S2-3 =DISABLE, S	2-4=E			PX
096	DTRTMIBL	NABLE,S2 -5=ESF, S3=	7.5D.			PX
098	DTRTMIBL	B, S4=SHO RT, S5=DISA	BLE,S			PX
100	DTRTMIBL	6=ON, S7=	ENABLE			PX
102 W	DTRTMIBL6CD	DEMARC				S
104					STA ADDR	N
106		11			EU FLR	N
108		1129			EU ROOM	N
CKT S	/HCGS/324230	/MB			A TROYMIUOWOO Z	DTRTMIBL6CD
CLO MIS123927001		DV	ACT IE IND	PRQ SSP TSP	MSC N MCO	DTRTMIBHSHC
CAC SVF2BP3	CUST AMERITECHCOMMUNICATI	PULS --	MW B EML OBJ		PG 04 OF 04	
M SEQ A	LOCATION	SV EQPT/FAC	RR/TYPE	UNIT	A TLP Z	SBDV/MISC TP
110		DETROIT				EU CITY N
112		MI				EU STATE N
114	DTRTMIBL6CD	04DU9/	1SN/			NI
116	DTRTMIBL6CD	DTRTMIBL	6CD CONSUM ER			NX

Fig. 6b

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EPN: BETHUNE (IT)

EPN	HOST PORT	CKT ID	ALARM STATUS	CSU_A	CSU_Z	REMOTE PORT
14	001 C 12 A	DHDZ 791565	NONE	144.151.178.37	N/A	008 A 02 A
	001 C 12 B	DHDZ 791566	NONE	144.151.178.38	N/A	008 A 02 B
	001 C 12 C	DHDZ 791567	NONE	144.151.178.39	N/A	008 A 02 C
	001 C 12 D	DHDZ 791568	NONE	144.151.178.40	N/A	008 A 02 D

EPN: KALAMAZOO

EPN	HOST PORT	CKT ID	ALARM STATUS	CSU_A	CSU_Z	REMOTE PORT
25	001 C 11 A	DHDZ 708222	NONE	144.151.178.57	N/A	020 A 02 A
	001 C 11 B	DHDZ 708223	NONE	144.151.178.58	N/A	020 A 02 B
	001 C 11 C	DHDZ 708224	NONE	144.151.178.59	N/A	020 A 02 C
	001 C 11 D	DHDZ 708225	NONE	144.151.178.60	N/A	020 A 02 D
26	001 E 01 A	DHDZ 708226	NONE	144.151.178.149	N/A	021 A 02 A
	001 E 01 B	DHDZ 708227	NONE	144.151.178.150	N/A	021 A 02 B
	001 E 01 C	DHDZ 708228	NONE	144.151.178.151	N/A	021 A 02 C
	001 E 01 D	DHDZ 708229	NONE	144.151.178.152	N/A	021 A 02 D
27	002 B 11 A	DHDZ 708230	NONE	144.151.178.153	N/A	022 A 02 A
	002 B 11 B	DHDZ 708231	NONE	144.151.178.154	N/A	022 A 02 B
	002 B 11 C	DHDZ 708232	NONE	144.151.178.155	N/A	022 A 02 C
	002 B 11 D	DHDZ 708233	NONE	144.151.178.156	N/A	022 A 02 D

EPN: SAGINAW

EPN	HOST PORT	CKT ID	ALARM STATUS	CSU_A	CSU_Z	REMOTE PORT
28	002 E 01 A	DHDZ 708234	NONE	144.151.178.25	N/A	023 A 02 A
	002 E 01 B	DHDZ 708235	NONE	144.151.178.26	N/A	023 A 02 B
	002 E 01 C	DHDZ 708236	NONE	144.151.178.27	N/A	023 A 02 C
	002 E 01 D	DHDZ 708237	NONE	144.151.178.28	N/A	023 A 02 D
29	002 E 21 A	DHDZ 708238	NONE	144.151.178.41	N/A	024 A 02 A
	002 E 21 B	DHDZ 708239	NONE	144.151.178.42	N/A	024 A 02 B
	002 E 21 C	DHDZ 708240	NONE	144.151.178.43	N/A	024 A 02 C
	002 E 21 D	DHDZ 708241	NONE	144.151.178.44	N/A	024 A 02 D
30	003 E 01 A	DHDZ 708242	NONE	144.151.178.121	N/A	025 A 02 A
	003 E 01 B	DHDZ 708243	NONE	144.151.178.122	N/A	025 A 02 B
	003 E 01 C	DHDZ 708244	NONE	144.151.178.123	N/A	025 A 02 C
	003 E 01 D	DHDZ 708245	NONE	144.151.178.124	N/A	025 A 02 D
31	003 E 21 A	DHDZ 708246	NONE	144.151.178.137	N/A	026 A 02 A
	003 E 21 B	DHDZ 708247	NONE	144.151.178.138	N/A	026 A 02 B
	003 E 21 C	DHDZ 708248	NONE	144.151.178.139	N/A	026 A 02 C
	003 E 21 D	DHDZ 708249	NONE	144.151.178.140	N/A	026 A 02 D

*Fig. 7a*

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EPN: SOUTHFIELD

EPN	HOST PORT	CKT ID	ALARM STATUS	CSU_A	CSU_Z	REMOTE PORT
17	001 D 10 A	DHDZ 708302	NONE	144.151.178.17	N/A	013 A 02 A
	001 D 10 B	DHDZ 708303	NONE	144.151.178.18	N/A	013 A 02 B
	001 D 10 C	DHDZ 708304	NONE	144.151.178.19	N/A	013 A 02 C
	001 D 10 D	DHDZ 708305	NONE	144.151.178.20	N/A	013 A 02 D
18	001 D 11 A	DHDZ 708306	NONE	144.151.178.33	N/A	014 A 02 A
	001 D 11 B	DHDZ 708307	NONE	144.151.178.34	N/A	014 A 02 B
	001 D 11 C	DHDZ 708308	NONE	144.151.178.35	N/A	014 A 02 C
	001 D 11 D	DHDZ 708309	NONE	144.151.178.36	N/A	014 A 02 D
19	002 A 11 A	DHDZ 708310	NONE	144.151.178.49	N/A	015 A 02 A
	002 A 11 B	DHDZ 708311	NONE	144.151.178.50	N/A	015 A 02 B
	002 A 11 C	DHDZ 708312	NONE	144.151.178.51	N/A	015 A 02 C
	002 A 11 D	DHDZ 708313	NONE	144.151.178.52	N/A	015 A 02 D
20	002 B 10 A	DHDZ 708314	NONE	144.151.178.113	N/A	016 A 02 A
	002 B 10 B	DHDZ 708315	NONE	144.151.178.114	N/A	016 A 02 B
	002 B 10 C	DHDZ 708316	NONE	144.151.178.115	N/A	016 A 02 C
	002 B 10 D	DHDZ 708317	NONE	144.151.178.116	N/A	016 A 02 D
21	003 A 10 A	DHDZ 708318	NONE	144.151.178.129	N/A	017 A 02 A
	003 A 10 B	DHDZ 708319	NONE	144.151.178.130	N/A	017 A 02 B
	003 A 10 C	DHDZ 708320	NONE	144.151.178.131	N/A	017 A 02 C
	003 A 10 D	DHDZ 708321	NONE	144.151.178.132	N/A	017 A 02 D
22	003 A 11 A	DHDZ 708322	NONE	144.151.178.145	N/A	018 A 02 A
	003 A 11 B	DHDZ 708323	NONE	144.151.178.146	N/A	018 A 02 B
	003 A 11 C	DHDZ 708324	NONE	144.151.178.147	N/A	018 A 02 C
	003 A 11 D	DHDZ 708325	NONE	144.151.178.148	N/A	018 A 02 D

*Fig. 7b*

## LATEST (TIMES) ALARM MESSAGE...

-MIC1 ALARM LOG-

12/29 13:30 (1) 12/29 13:29 ->03E12 SNC-LINK MINOR  
 12/21 21:29 (6) 12/19 14:02 ->05A0401 PGATE-PT MINOR  
 12/21 04:35 (6) 12/21 01:27 ->37\_A-PNC FIBER-LK MINOR  
 12/21 04:34 (6) 12/21 01:35 ->35\_A-PNC FIBER-LK MAJOR  
 12/21 04:34 (6) 12/21 01:35 ->37\_A-PNC FIBER-LK MAJOR  
 12/21 04:34 (6) 12/21 01:26 ->25A0101 SYS-LINK MINOR (@EPN 30-SAGINAW)  
 12/21 04:34 (4) 12/21 01:37 ->38\_A-PNC FIBER-LK MAJOR  
 12/21 04:34 (3) 12/21 01:35 ->26A0101 SYS-LINK MINOR (@EPN 31-SAGINAW)  
 12/21 04:21 (7) 12/21 01:26 ->36\_A-PNC FIBER-LK MINOR  
 12/21 04:21 (6) 12/21 01:26 ->38\_A-PNC FIBER-LK MINOR  
 12/21 04:21 (6) 12/21 01:26 ->35\_A-PNC FIBER-LK MINOR  
 12/21 04:20 (5) 12/21 01:40 ->03E21C DS1-FAC MINOR (@EPN 31-SAGINAW)  
 12/21 04:20 (5) 12/21 01:27 ->PN\_28 EXP-PN MAJOR  
 12/21 04:20 (5) 12/21 01:35 ->36\_A-PNC FIBER-LK MAJOR  
 12/21 04:20 (4) 12/21 01:26 ->23A0101 SYS-LINK MINOR (@EPN 28-SAGINAW)  
 12/21 04:20 (3) 12/21 01:39 ->PN\_31 EXP-PN MAJOR  
 12/21 04:20 (3) 12/21 01:41 ->03E20 SN-CONF MAJOR (EPN 31-SAGINAW)  
 12/21 04:20 (4) 12/21 01:35 ->PN\_30 EXP-PN MAJOR  
 12/21 04:20 (2) 12/21 01:40 ->02E20 SN-CONF MAJOR (EPN 29-SAGINAW)  
 12/21 04:18 (2) 12/21 01:26 ->26A01 EXP-INTF MINOR (@EPN 31-SAGINAW)  
 12/21 04:18 (2) 12/21 01:29 ->24A0101 SYS-LINK MINOR (@EPN 29-SAGINAW)  
 12/21 02:15 (4) 12/21 01:40 ->02E01A DS1-FAC MINOR (EPN 28-SAGINAW)  
 12/21 02:15 (3) 12/21 01:35 ->03E03 SN-CONF MAJOR (EPN 30-SAGINAW)  
 12/21 02:10 (3) 12/21 01:37 ->PN\_29 EXP-PN MAJOR  
 12/21 02:10 (3) 12/21 01:39 ->03E21D DS1-FAC MINOR (EPN 31-SAGINAW)  
 12/21 02:05 (2) 12/21 01:44 ->25A01 EXP-INTF MINOR (@EPN 30-SAGINAW)  
 12/21 02:03 (2) 12/21 01:39 ->02E21A DS1-FAC MINOR (EPN 29-SAGINAW)  
 12/21 02:01 (2) 12/21 01:42 ->02E03 SN-CONF MAJOR (EPN 28-SAGINAW)  
 12/21 02:01 (2) 12/21 01:39 ->02E21B DS1-FAC MINOR (EPN 29-SAGINAW)  
 12/21 02:01 (2) 12/21 01:39 ->02E21D DS1-FAC MINOR (EPN 29-SAGINAW)

Fig. 8

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- MIC1 AGENT STATUS -  
(AS OF THU DEC 30 08:35:25 1999 CDT)

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SPLIT/ SKILL	AGENTS ACTIVE	QUEUED CALLS	LONGEST WAIT	GATE NAME
99	2	0	0:00	SYSTEM PORTS
200	115	57	3:44	STHFLD UNIV 200
204	1	0	0:00	MI CSST
231	3	0	0:00	HOTC INBOUND
256	4	0	0:00	MI ASST COACH
260	1	0	0:00	KALAMAZOO ACE
263	1	0	0:00	SOUTHFIELD ACE
	127	57	3:44	** TOTALS **

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*Fig. 9*

BETHUNE-EPN 14  
(CABINET 8)

PORT\CARD	08A03	08A04	08A05	08A06
1	59400	59424	--	--
2	59401	59425	--	--
3	59402	59426	--	--
4	59403	59427	--	--
5	59404	59428	--	--
6	59405	59429	--	--
7	59406	59430	--	--
8	59407	59431	--	--
9	59408	59432	--	--
10	59409	59433	--	--
11	59410	59434	--	--
12	59411	59435	--	--
13	59412	59436	--	--
14	59413	59437	--	--
15	59414	59438	--	--
16	59415	59439	--	--
17	59416	59440	--	--
18	59417	59441	--	--
19	59418	59442	--	--
20	59419	--	--	--
21	59420	--	--	--
22	59421	--	--	--
23	59422	--	--	--
24	59423	--	--	--

*Fig. 10*

- MIC1 TRAFFIC LOAD- 13/20  
(PAST HOUR / PEAK FOR THU DEC 30 08:35:25 1999 CDT)

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Fig. 11

PORT NETWORK	NAME	TDM OCC	PN OCC	..... 20 ..... 40 ..... 60 ..... 80 ..... 100
1	HOST CABINET 1	16	5	
2	HOST CABINET 2	10	6	
3	HOST CABINET 3	6	4	
4	HOST CABINET 4	6	4	
5	HOST CABINET 4	7	5	
6	HOST CABINET 5	2	1	
7	HOST CABINET 5	9	6	
8	HOST CABINET 6	3	2	
9	HOST CABINET 6	6	4	
10	HOST CABINET 7	3	2	
11	HOST CABINET 7	3	2	
23	HOST CABINET 19	0	0	
24	HOST CABINET 19	2	2	
32	HOST CABINET 27	3	2	
12	HOST CABINET 28	6	4	
13	HOST CABINET 29	8	5	
14	BETHUNE	0	0	
25	KALAMAZOO	2	7	
26	KALAMAZOO	4	11	
27	KALAMAZOO	2	7	
28	SAGINAW	3	8	
29	SAGINAW	4	11	
30	SAGINAW	2	6	
31	SAGINAW	1	2	
17	SOUTHFIELD	2	6	
18	SOUTHFIELD	2	5	
19	SOUTHFIELD	3	10	
20	SOUTHFIELD	2	7	
21	SOUTHFIELD	2	5	
22	SOUTHFIELD	2	7	

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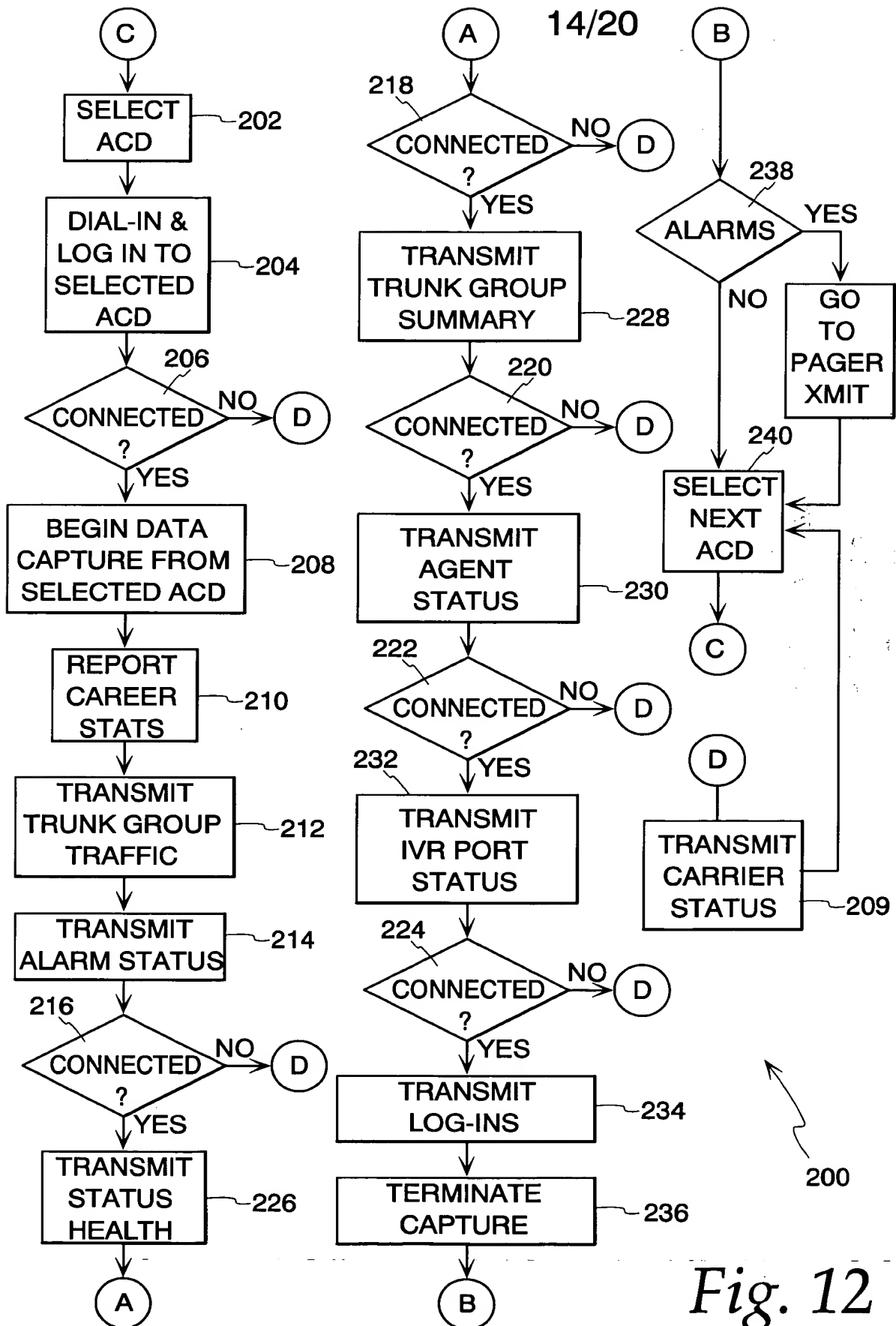
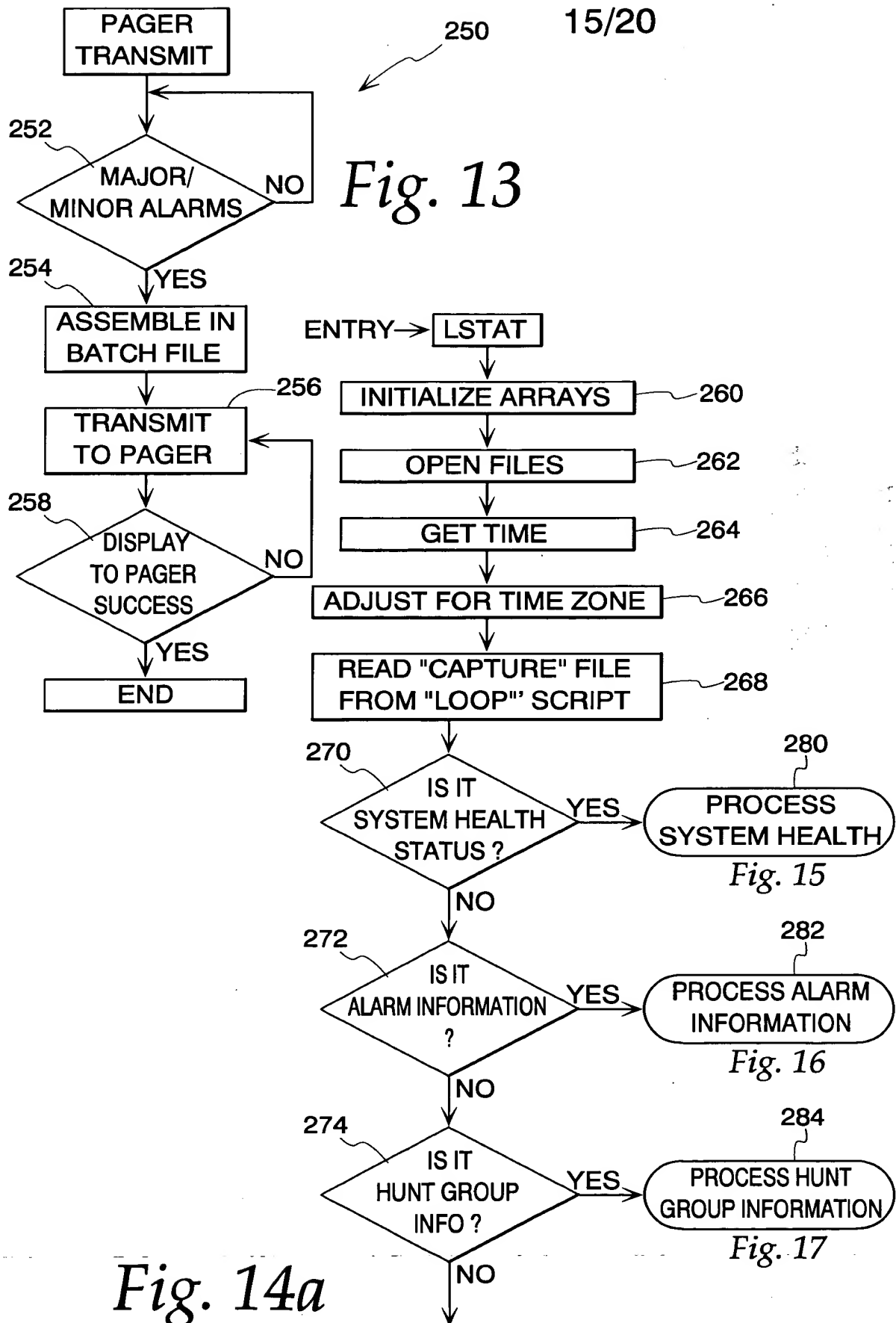
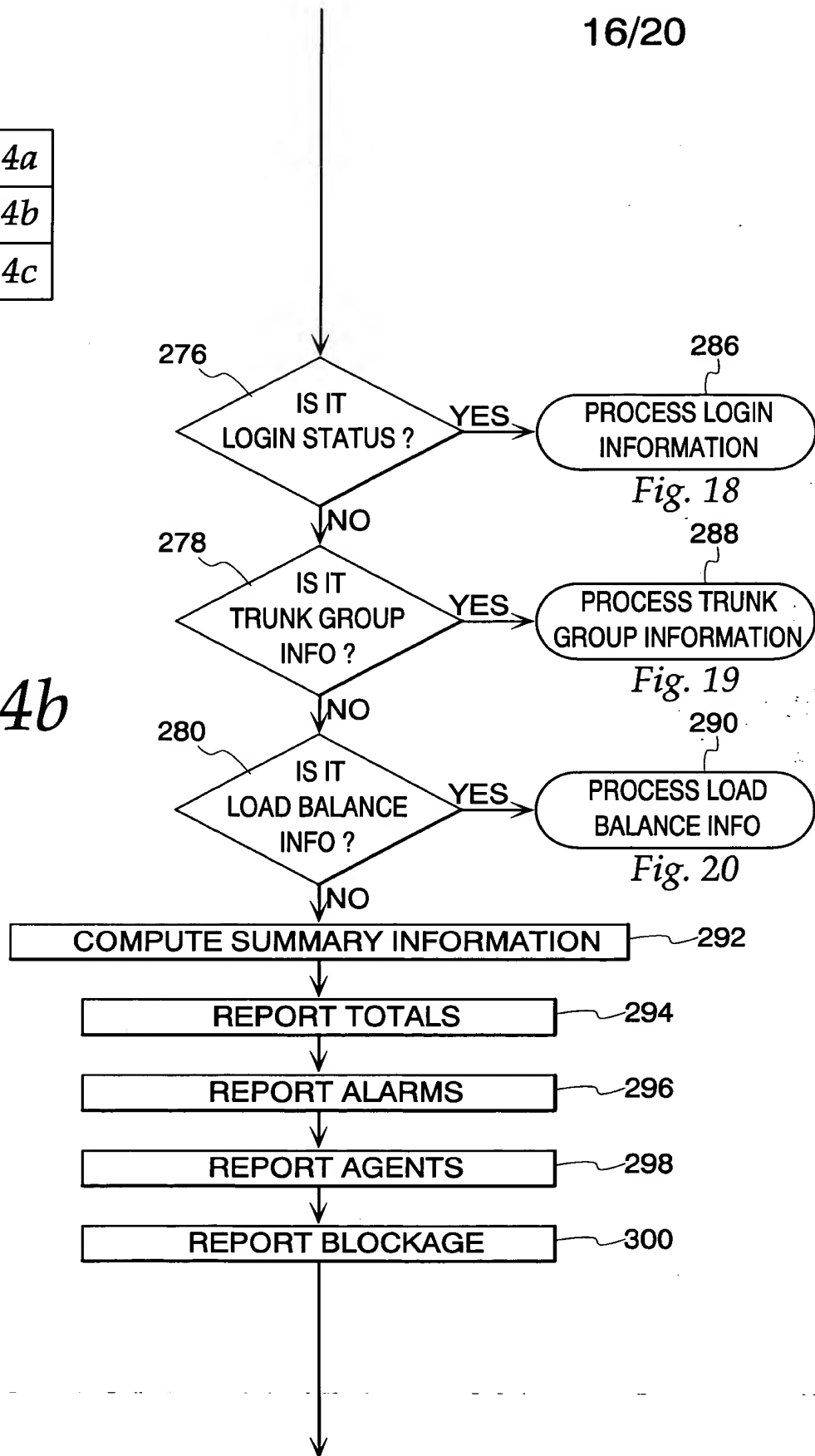


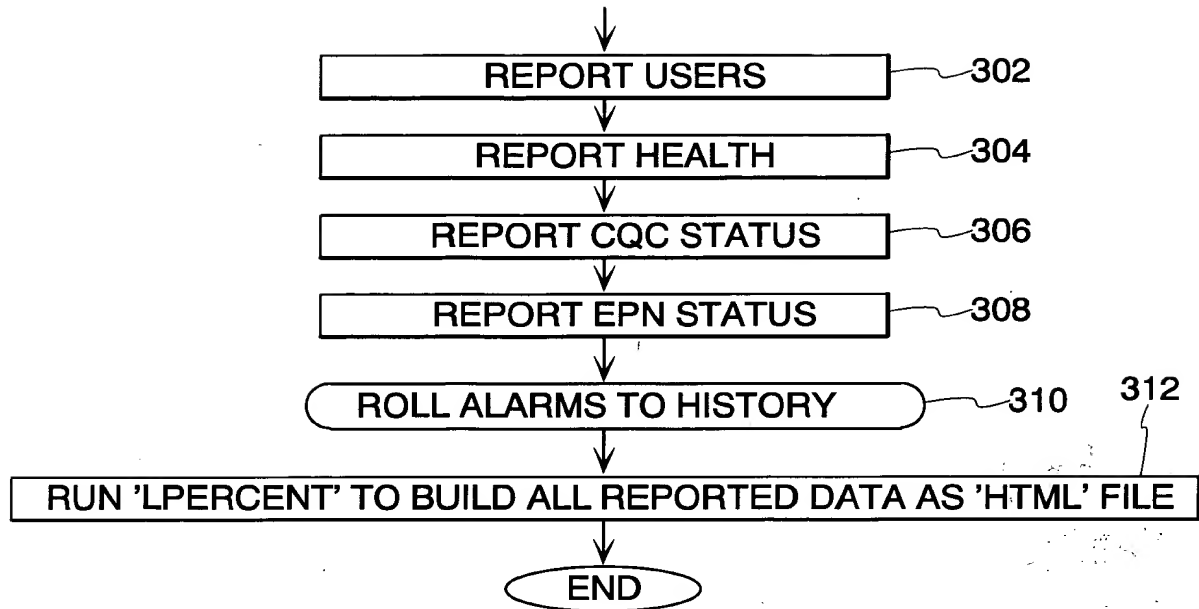
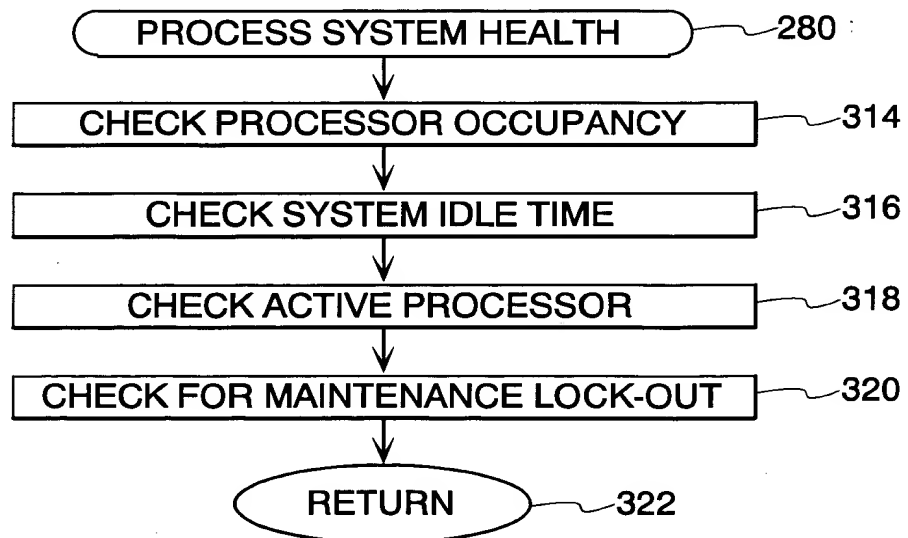
Fig. 12

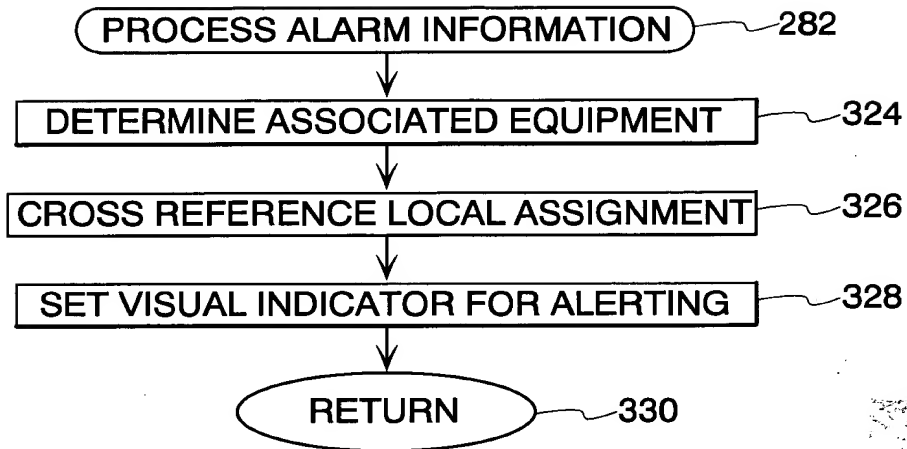
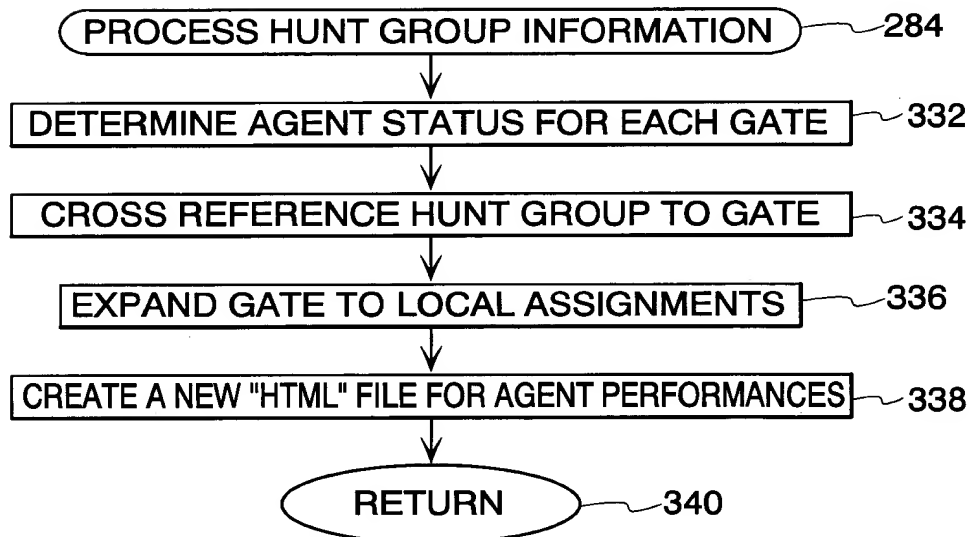


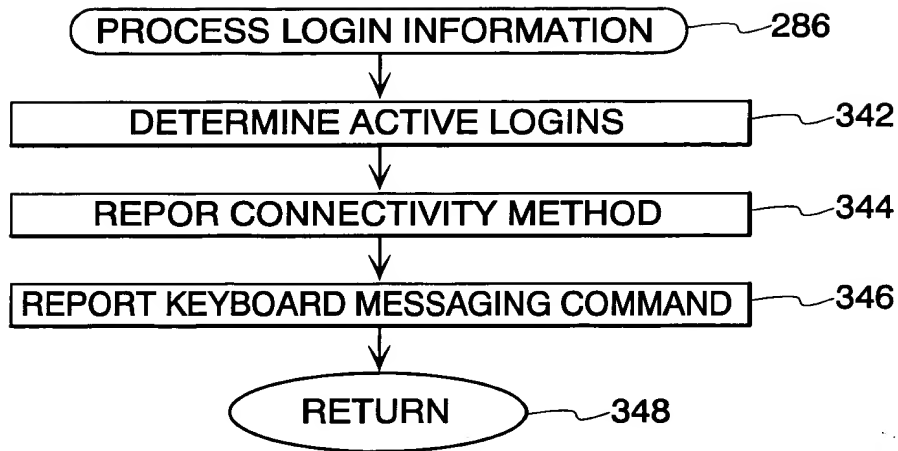
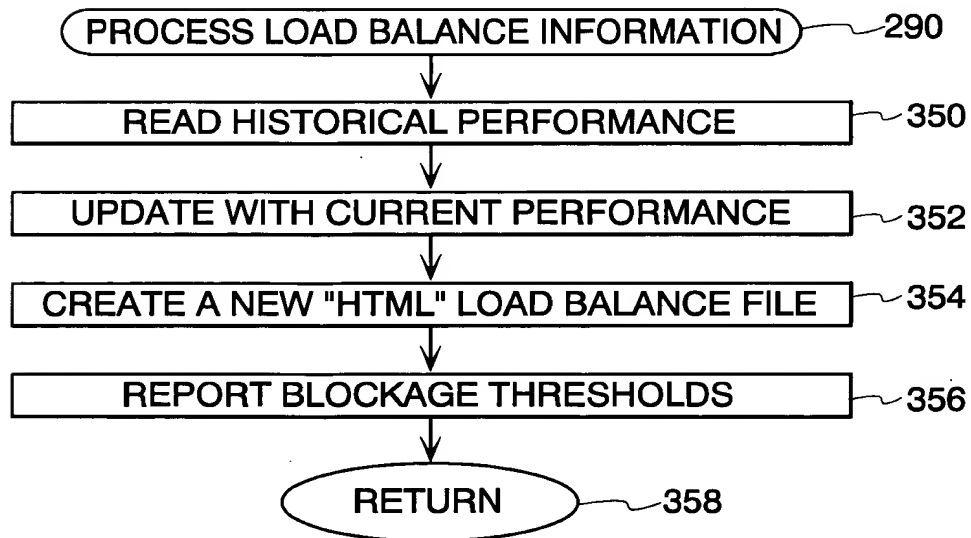


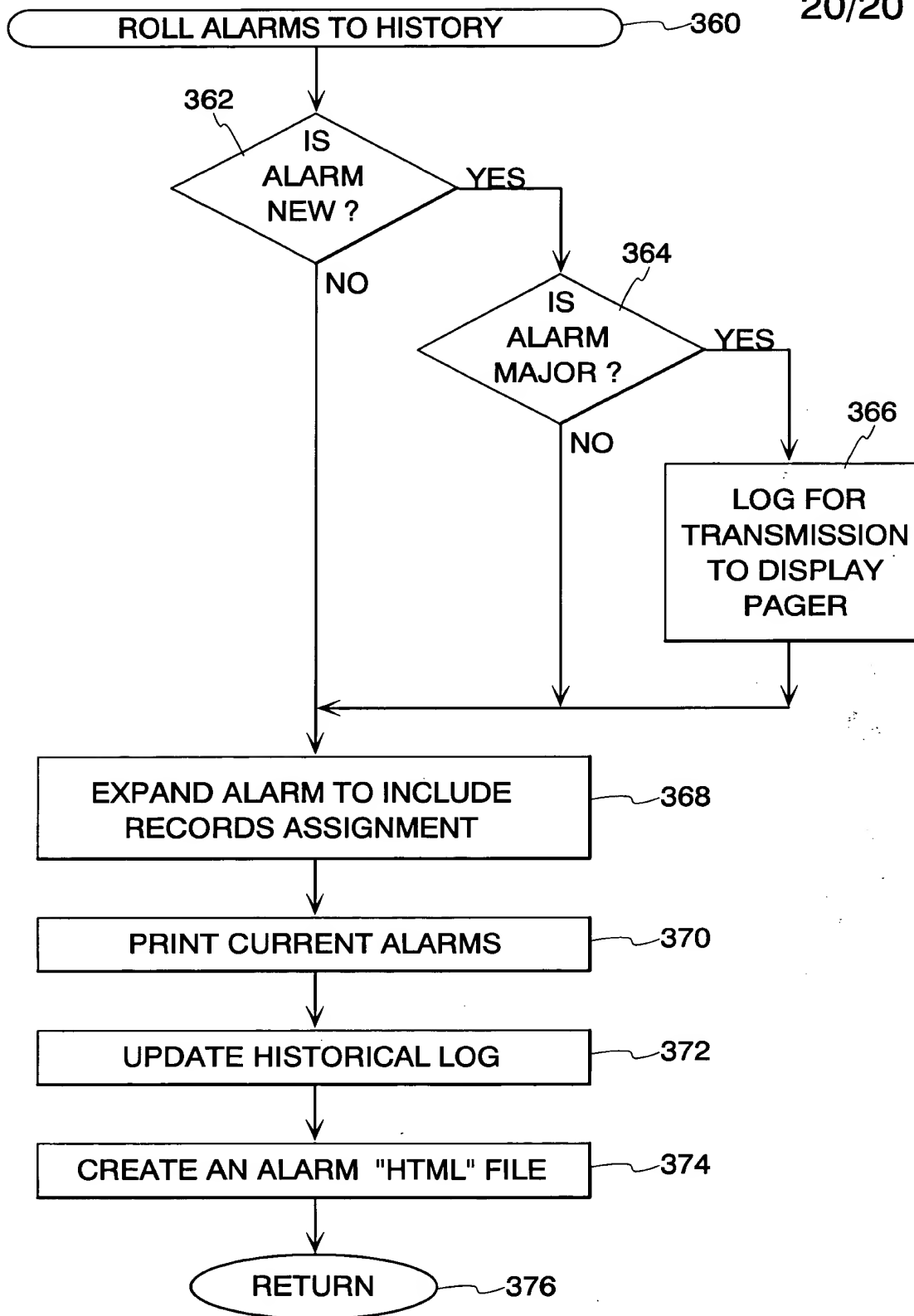
<i>Fig. 14a</i>
<i>Fig. 14b</i>
<i>Fig. 14c</i>

*Fig. 14b*

*Fig. 14c**Fig. 15*

*Fig. 16**Fig. 17*

*Fig. 18**Fig. 19*

*Fig. 20*